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FEU 00 1073

PROCURENT SECTION CURRENT SERIAL RECORDS

## WATER SUPPLY OUTLOOK FOR ARIZONA

Prepared by

### U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

SALT RIVER VALLEY WATER USERS ASSOCIATION and ARIZONA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

FEB. 15, 1973

### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

MENT of A

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

COVER PHOTO NUMBER DRC-186-4

## WATER SUPPLY OUTLOOK FOR ARIZONA

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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SOIL CONSERVATION SERVICE ROOM 6029 FEDERAL BUILDING PHOENIX, ARIZONA 85025



USGS Norlows Arios 1:1,000,000 Albers Equal-Area projection (1967) used as source for been map and adapted for SCS use. SCALE 1:3,800,000
ALBERS EQUAL AREA PROJECTION

### INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

17.4	DEA to SIVOW	OOC		and	OIL	MOISTOR		110115
NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	DRAINAGE	<u>OBSERVER</u>	RECORD BEGAN
11P10A	Agassiz	32	23N	7E	11200	Little Colorado	SCS	1968
11R7 11R6PSP 9S1APSP 9S15 9S16 10T1 9S6 12P5 12P4 9S10m 12N1	Baker Butte #2 Baker Butte Baldy Baldy #2 Baldy #3 Bear Wallow Beaver Head Bill Williams Intermediate Bill Williams Summit Black River Divide Bright Angel	9 4 28 12 13 6 13 17 17 10 34	12N 12N 7N 6N 6N 12S 4N 21N 21N 6N 33N	9E 9E 27E 26E 26E 16E 30E 2E 2E 27E 3E	7700 7300 9125 9750 10950 8100 8000 8550 8950 9400 8400	Verde Verde Little Colorado Little Colorado Little Colorado Gila San Francisco Cataract Verde Salt Bright Angel Creek	SCS SCS SCS SCS SCS FS FS FS FS FS	1971 1966 1950 1963 1963 1948 1938 1967 1967 1954
12R1 10R7M 10R9P 12P1M 9R7 12R6P 10R8m 9S7 9T2A	Camp Wood Canyon Creek #2 Canyon Point Chalender Cheese Springs Copper Basin Divide Corduroy Creek Coronado Trail Crazy Horse	3 18 28 27 28 23 4 26 34	16N 11N 11N 22N 8N 13N 8N 5N	6W 15E 14E 3E 27E 3W 21E 30E 24E	5700 7500 7600 7100 8600 6720 6000 8000 10200	Verde Little Colorado Salt Verde Little Colorado Verde Salt San Francisco Gila	FS SCS SCS FS SCS SCS SCS FS	1946 1958 1967 1947 1969 1963 1954 1938 1963
11P11a	Doyle Saddle	4	22N	7E	10900	Little Colorado	SCS	1968
7T1 7T2	Emory Pass #1 Emory Pass #2	16 16	16S 16S	9W**	7800 7800	Mimbres Mimbres	SC S SC S	1967 1967
10R6 9R5 11P2P 8S1MP	Forest Dale Ft. Apache Ft. Valley Frisco Divide	2 18 22 31	9N 7N 22N 6S	21E 27E 6E 20W**	6430 9160 7350 8000	Salt Little Colorado Little Colorado San Francisco	BIA SCS FS FS	1939 1951 1947 1938
12R4 11P1	Gaddes Canyon Grand Canyon	11 21	15N 30N	2E 4E	7600 7500	Verde Hance Creek	SCS NPS	1954 1947
9S11P 11R5P 9R10 10R4PSP 9T1A 8S9A	Hannagan Meadows Happy Jack Hawley Lake Heber High Peak Hummingbird	19 30 13 28 34 19	3N 16N 7N 11N 8S 11S	29E 9E 24E 15E 24E 17W**	9090 7630 8300 7600 10500 10550	San Francisco Verde Salt Little Colorado Gila Gila	FS FS BIA SCS FS SCS	1964 1951 1966 1950 1963 1964
11P9P 11P8P 11P7 12R2	Inner Basin #1 Inner Basin #2 Inner Basin #3 Iron Springs	28 28 3 22	23N 23N 23N 14N	7E 7E 7E 3W	10000 9750 10250 6200	Little Colorado Little Colorado Little Colorado Bill Williams	SCS-USBR SCS-USBR SCS-USBR SCS	1967 1967 1967 1946
9S2APSP 7S3A 9R2M 9R1 12R3 8S2 11R4 11R3MAPSP 9S12A	Maverick Fork McKnight Cabin McNary Milk Ranch Mingus Mountain Mogollon Mormon Lake Mormon Mountain Mt. Ord	13 10 23 33 3 2 13 14 4	6N 15S 8N 8N 15N 11S 18N 18N 6N	27E 10W** 23E 23E 2E 19W** 8E 8E 26E	9150 9300 7200 7000 7100 7000 7350 7500 11200	Salt Mimbres Salt Salt Verde San Francisco Little Colorado Verde Salt	SCS SCS BIA BIA SCS SCS SCS SCS SCS SRP-SCS	1950 1967 1939 1941 1947 1953 1947 1950
11P5M 9S4	Newman Park Nutrioso	25 23	19N 6N	6E 30E	6750 8500	Verde San Francisco	SCS FS	1963 1938
11R10	Promontory Butte	5	11N	13E	7930	Little Colorado	SCS	1973
8S7 10T2	Redstone Trail Rose Canyon	5 15	11S 12S	18W** 16E	8600 7300	San Francisco Gila	SCS FS	1961 1948
8S8P 9S14A 11P4 11P6 9S8 9S17	Silver Creek Divide Smith Cienega Snow Bowl #1 Snow Bowl #2 State Line Sunrise Summit	4 10 36 31 6 36	11S 6N 23N 23N 6S 7N	18W** 26E 6E 7E 21W** 26E	9000 10050 10260 11000 8000 10600	San Francisco Salt Verde Verde San Francisco Salt	SCS SRP-SCS FS FS FS FAIR-SCS	1964 1966 1961 1965 1938 1972
12P2P 12R5 8S10A 12P3 9R6P 10S1P	White Horse Lake Jct. White Spar Whitewater Williams Ski Run Wilson Lake Workman Creek	2 19 19 9 4 33	20N 13N 11S 21N 7N 6N	2E 2W 17W** 2E 26E 14E	7180 6000 10750 7720 9000 6900	Verde Verde Gila Cataract Salt Salt	FS SCS SCS FS SCS FS	1967 1963 1964 1967 1966 1952

A Aerial Snow Depth Marker M Soil Moisture Station

P Precipitation Storage Gage

<sup>\*\*</sup> NM Principal Meridian

a Aerial Snow Depth Marker Only

m Soil Moisture Station Only

### ARIZONA WATER SUPPLY OUTLOCK

FEBRUARY 15, 1973

The water supply outlook for Arizona is very good. Reservoir storage is much above average and all streamflow forecasts have been revised upward.

### SNOW COVER

Significant increase in snow pack has occurred on all watersheds due to heavy February precipitation and a minimum of melt. The present snow cover is 52% above average on the Gila, 64% on the Little Colorado, 81% on the Salt, and 141% above average on the Verde. Snow depths range from about 2 feet at the 7,000 foot level to 3 feet at 11,000 feet, with water contents of 2 to 23 inches.

### PRECIPITATION

February precipitation has been over twice normal at almost all stations with some additional amounts occurring since the survey date. Most of the higher water-producing areas received over 3 inches so far this month.

### SOIL MOISTURE

Soils are very wet, especially above 6,000 feet. High runoff will result from moderate precipitation this spring.

### RESERVOIR STORAGE

Reservoir storage continues to increase steadily. The Salt River Project reservoirs, at 75% of capacity, are 48% above average for this date. "No charge" water again is being delivered to farmers from the nearly full Verde reservoirs in order to maintain some space for more rapid inflow.

### STREAMFLOW AND WATER SUPPLY

Due to the heavy snowfall this month, all streamflow forecasts have been significantly increased. The combined flow of the Salt, Verde, and Tonto streams is now predicted to produce 566,000 acre-feet for the period February 1 through May. This is 39% above average. The Gila at the head of Safford Valley is forecast to yield 33% above average with the river inflow to remain above 100 cfs until June 5. Water supplies are also very good on the Colorado River. The April-July forecast of 8,065,000 acre-feet is 24% above average.

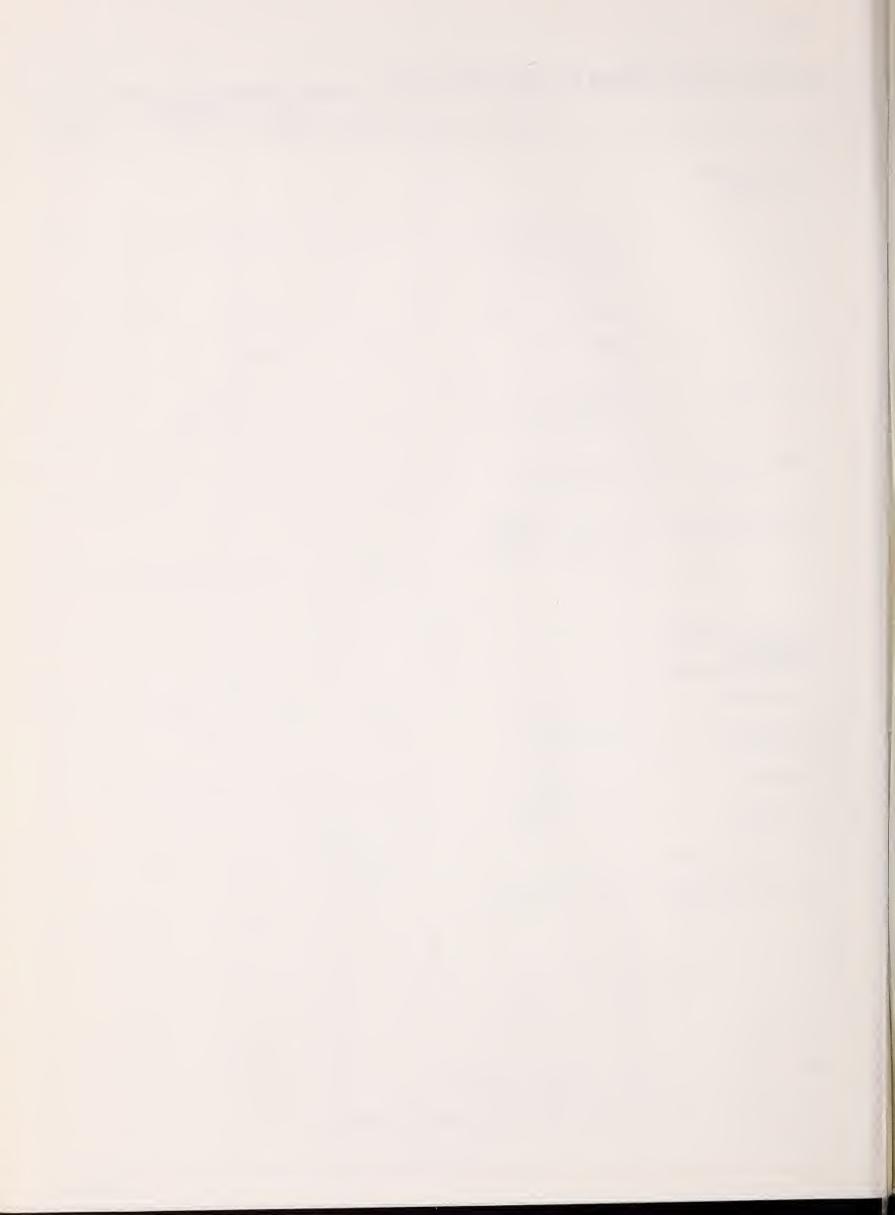


ABOUT FEBRUARY THIS YEAR PAST RECORD STREAMFLOW FORECASTS 15, 1973 THOUSAND ACRE FEET FORECAST FORECAST Percent of Average Thousand Acre Feet Average + Last Year BASIN STREAM and or FORECAST POINT PERIOD SALT RIVER DRAINAGE 73.9 Feb-May 239.4 Salt near Roosevelt 314 131 Feb-May 2.7 29.3 Tonto Creek near Roosevelt 60 205 139.7 45.2 Feb-May Verde River above Horseshoe 192 137 Total Salt River Project 566 139 121.8 408.4 Streams Feb-May Verde River above Horseshoe 90 160 March 11.9 56,4 GILA RIVER DRAINAGE 10.0 56.1 69 123 Feb-May Gila River at Calva Gila River near Gila 53 138 Feb-May 38.3 18.3 127 95.4 Gila River near Solomon 133 Feb-May 25.7 Gila River near Solomon 50 130 March 38.4 7.2 65 Gila River near Virden 136 Feb-May 19.2 47.8 Frisco River at Clifton 65 134 48.7 Feb-May 14.1 28 Frisco River at Glenwood 143 Feb-May 19.5 6.0 LITTLE COLORADO RIVER DRAINAGE 12.0 141 Feb-June 3.0 8.5 Little Colo. River above Lyman Dam GRANITE CREEK DRAINAGE 1.4 Feb-May Granite Creek Feb-May .6 Willow Creek MIMBRES RIVER DRAINAGE 3.5 125 2.8 Mimbres River near Mimbres Feb-May 1.7 COLORADO RIVER DRAINAGE Colorado River -- Lake Powell 8,065 124 Apr-July 5,578 6527.0 Inflow (Issued by SCS, Salt Lake City) Virgin River nr. Littlefield 70 210 33.4 Apr-June 13.0 The Gila at Head of Safford Valley is predicted to flow above 100 cfs until June 5. T Based on the 15-year period, 1953-67 - 2 -

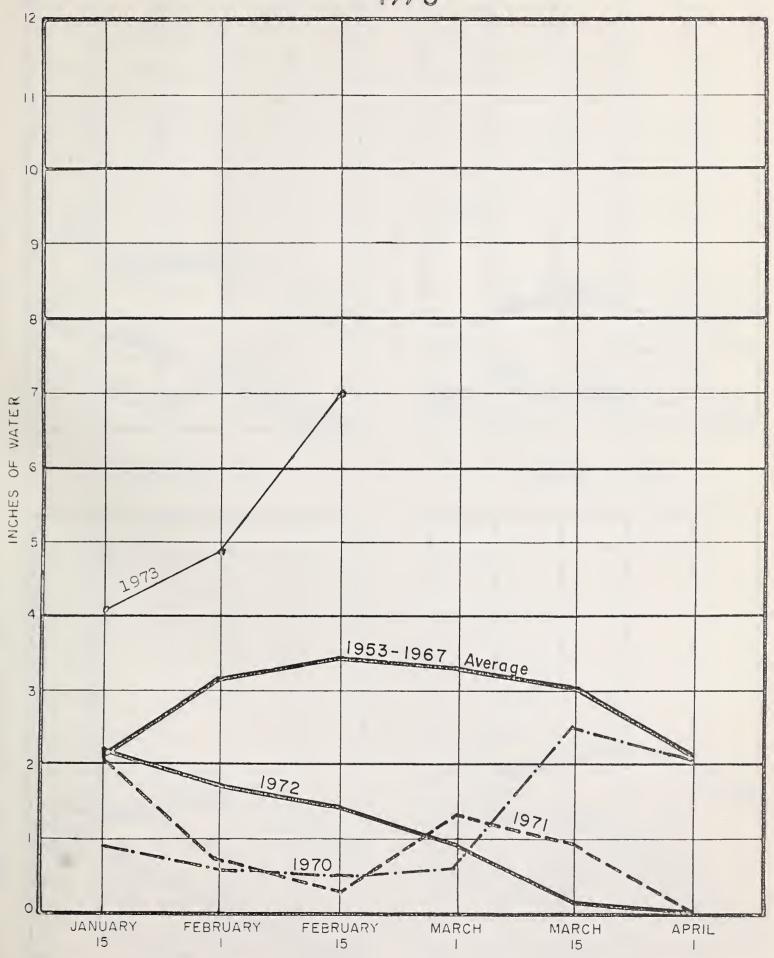


RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING ABOUT FEBRUARY 15 Usable Storage Usable Capacity RESERVOIR Basin or Stream This Year Last Year Average + GILA RIVER DRAINAGE Agua Fria Lake Pleasant 157.6 75.6 55.3 41.9 Granite Watson Lake 4.7 4.4 3.2 Granite Willow Creek 6.1 6.1 1.6 Gila San Carlos 948.6 422.6 132.1 106.8 Salt (4) Roosevelt. Apache: Canyon & Saguaro 1755.0 1,267.3 935.8 948.0 Verde (2) Bartlett & Horseshoe 317.7 291.2 119.6 109.4 Salt and Verde 6 Salt River Project Reservoirs 1,558.5 2072.7 1055.1 1057.4 COLORADO RIVER DRAINAGE Colorado Lake Havasu 619.4 542.2 551.5 536.5 Colorado Lake Mohave 1810.0 1,704.2 1655.0 1690.0 Colorado Lake Mead 26159.0 17910.0 16505.2 19,286.0 Colorado Lake Powell 25002.0 12,210.0 12913.0 Little Colorado Lyman 30.6 8.1 8.4 9.2 Little Colorado Show Low Lake 5.1 1.8 3.0 1.7\* + Based on 15-year period, 1953-67 Average is for less than 15 years of record

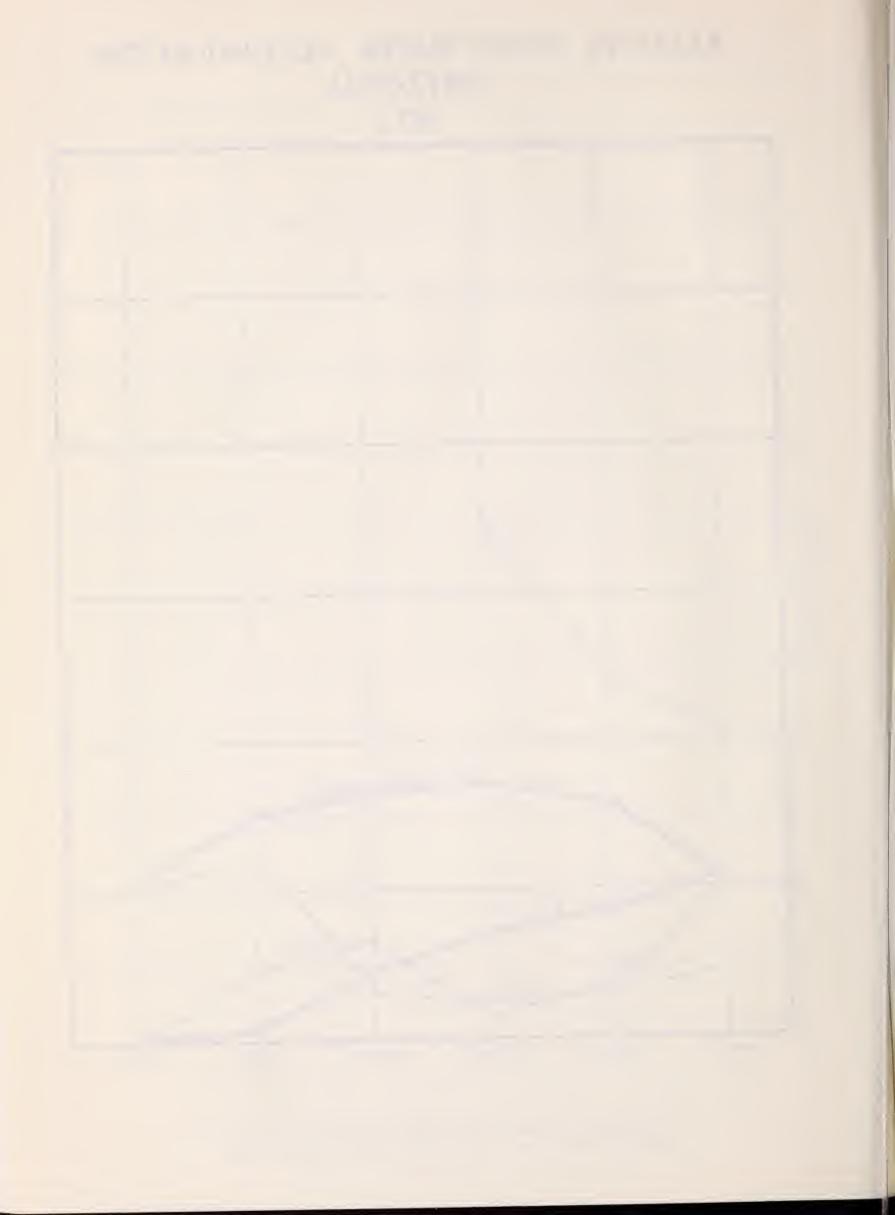
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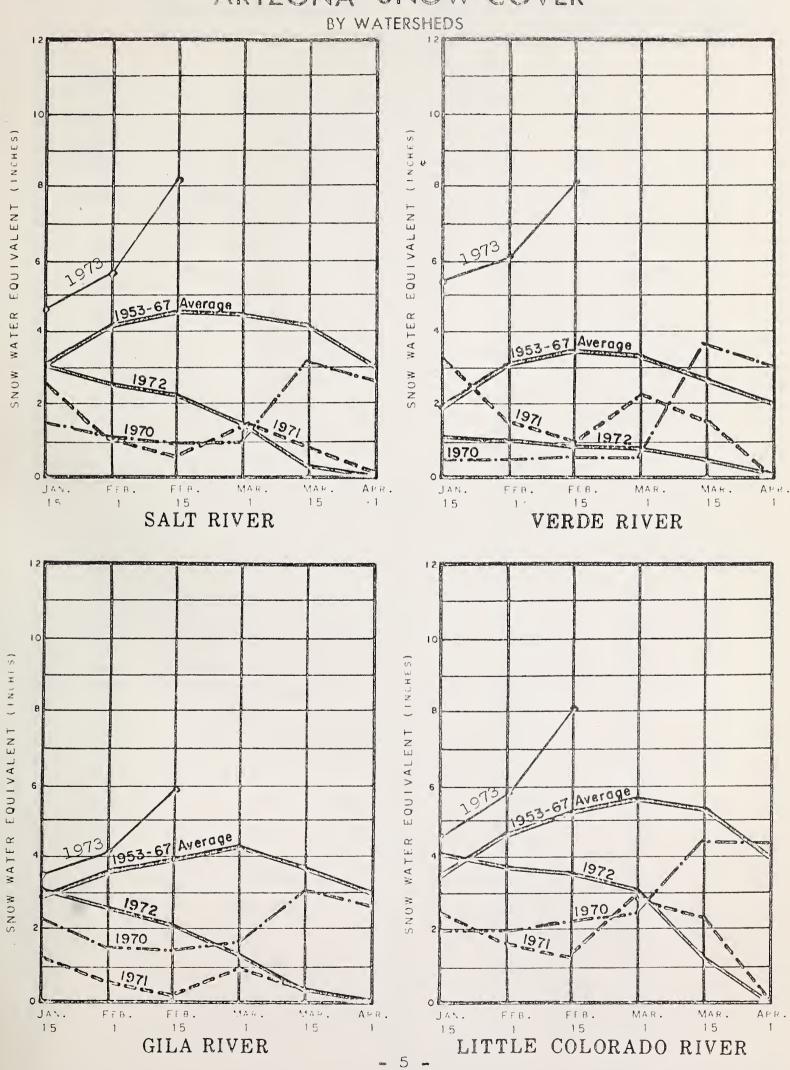
### RELATIVE SNOW WATER ACCUMULATION ARIZONA 1973



This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.



### 1973 ARIZONA SNOW COVER





RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged		ATER AS PERCENT OF:
	Averaged	Last Year	Average
Gila	10	260	152
		343	181
Salt	10		
Verde	10	904	241
Little Colorado	5	229	164
•			
	- 6 -		



### WATER SUPPLY INVENTORY

### SALT RIVER VALLEY SYSTEM

FEBRUARY 15, 1973

IN ACRE-FEET

3.000.000

AVERAGE SUPPLY ON FEBRUARY 15

ANTICIPATED 1973 SUPPLY \*

2,500,000

2,000,000

Average Summer Runoff

Forecast Runoff (February 15-May)

Average Summer Runoff

1,500,000

Average Spring Runoff

1,000,000

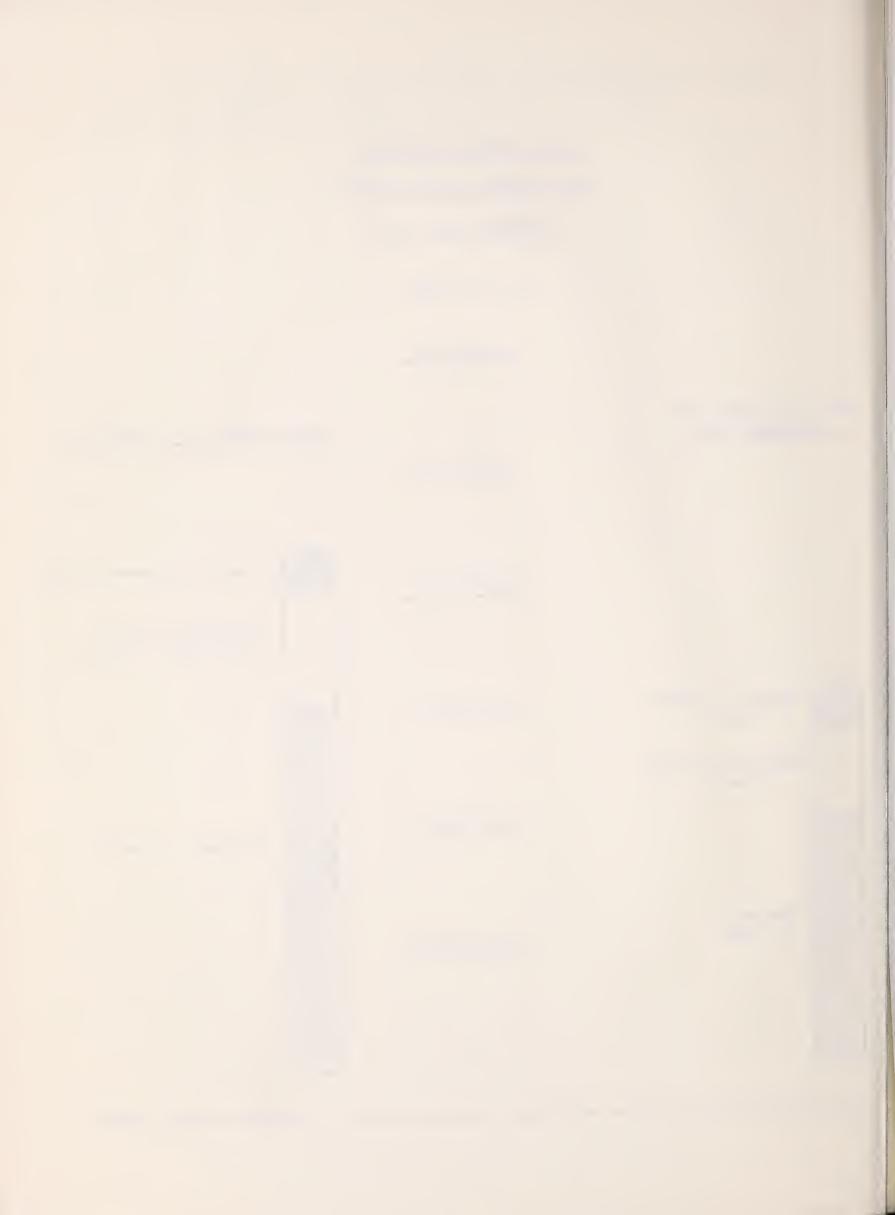
Present Storage

Average Storage

500,000

0

Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff



SNOW ABOUT FEBRUARY 15, 1973				Water Cons	ent (inches)		
DRAINAGE BASIN and/or SNOW COURSE  NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average	
NATE	Clevation				Eust Tear		
ILA RIVER							
Bear Wallow	8100	REPORT	DELAYE D		0.0	4.3	
Beaver Head	8000	2/14	22	4.8	1.0	2.7	
Coronado Trail	8000	2/15	20	4.3	0.5	2.3	
Crazy Horse (A)	10200						
· · ·	7800	2/12	9	1.7	0.0		
Emory Pass #1 *		1			I		
Emory Pass #2 *	7800	2/12	11	2.8	0.7		
Frisco Divide	8000	2/14	17	4,7	1.2	2.1	
Hannagan Meadows *	9090	2/14	50	13.0	6.0	8.1*	
High Peak (A)	10500						
Hummingbird (A)	10550	2/18	72	18.7	11.8	11.8*	
McKnight Cabin * (A)	9300	2/18	27	6.8	4.2		
Mogollon	7000	2/13	1	0.7	0.0	1.9	
Nutrioso	8500	2/14	16	3.4	0.7	1.6	
Redstone Trail	8600	2/13	24	8.0	4.3	7.0*	
Rose Canyon	7300	REPORT			0.0	2.8	
	9000	i	37	11.7	7.0	9.6*	
Silver Creek Divide		2/13			ł	2.2	
State Line	8000	2/14	22	5.4	1.2	1	
Whitewater (A)	10750	2/18	94	21.6	19.2	14.1*	
ALT RIVER							
Baldy *	9125	2/14	41	9,3	4.3	6.1	
Beaver Head	8000	2/15	22	4.8	1.0	2.7	
	7500	2/14	29	7,9	0.2	2.9*	
Canyon Creek			31	8.9	0.0	3.5*	
Canyon Point	7600	2/14				2.3	
Coronado Trail	8000	2/15	20	4,3	0.5		
Forest Dale	6430	2/14	20	4.6	0.0	1.2	
Ft. Apache	9160	2/14	39	9.0	5.1	6.5	
Hannagan Meadows	9090	2/14	50	13,0	6.0	8.1*	
Hawley Lake	8300	2/14	43	11,5	2.1	5.5*	
Heber	7600	2/14	33	8.8	0.2	3.0	
Maverick Fork	9050	2/14	51	11,5	5.5	7.4	
McNary	7200	2/14	23	6.5	0.2	2.5	
Milk Ranch	7000	2/14	17	3.9	0.0	1.7	
	11000	2/15	96	23.1		15.8*	
Mt. Ord (A)		· ·	16	3.4	0.7	1.6	
Nutrioso *	8500	2/14		0,4	0.7	1.0	
Promontory Butte	7930	0 /3 =		17.0		11 01	
Smith Cienega (A)	9850	2/15	64	17.9		11.0*	
Sunrise Summit	10600	2/15	59	16.2	12.5		
Wilson Lake	9000	2/15	48	12.6	7.5	8.2*	
Workman Creek	6900	2/12	31	10.1	0.9	4.5	
ILL WILLIAMS RIVER							
Camp Wood *	5700	2/14	5	1.3	0.0	0.5	
Copper Basin Divide	6720	2/14	15	4,2	0.0	2.1*	
		· ·	3		0.0	0.6	
Iron Springs	6200	2/14	3	0.8	0.0	0.0	
1953-67 15-year period.	(*) Ad	acent d	rainage.	(**)	1953-6	7	
djusted average. (A) Aer:							
ajabica average. (A) Aer.	101 00061	100	., 001	00.110 0110			
		8 -					



ABOUT FEBRUARY 15, 19		THIS YEAR	PAST RECORD			
DRAINAGE BASIN and/or SNOW COURSE	T -	Date of Survey	Snow Depth (Inches)	Water Content (Inches)		
NAME	Elevation				Last Tear	Average
VERDE RIVER						
Baker Butte	7300	2/14	35	11.0	1.6	5.0
Baker Butte #2	7700	2/14	51	16.1	4.5	
Camp Wood	5700	2/14	5	1.3	0.0	0.5
Chalender	7100	2/14	23	6.0	0.2	2.5
Copper Basin Divide	6720	2/14	15	4.2	0.0	2.
Fort Valley	7350	2/14	23	5.6	0.0	1.8
Gaddes Canyon	7600	2/14	33	9.2	0.0	3.8
Happy Jack	7630	2/14	37	9.5	0.0	2.1
Iron Springs *	6200	2/14	3	0.8	0.0	0.6
Mingus Mountain	7100	2/14	8	1.6	0.0	0.9
Mormon Lake *	7350	2/14	34	9.9	0.0	3.
Mormon Mountain	7500	2/14	41	11.5	0.2	3.9
Newman Park	6750	2/14	24	6.7	0.0	1.6
Snow Bowl #1	10260	2/14	56	13.6	7.0	8.0
Snow Bowl #2	11000	2/14	83	23.5	13.1	12.5
White Horse Lake Jct.	7150	2/15	27	7.0	0.0	14.
White Spar	6000	2/14	5	1.3	0.0	1.0
miles oper	0000	3/11			0.0	1.0
LOWER COLORADO RIVER						
Bill Williams Int.	8550	2/15	55	14.8	1.8	
Bill Williams Summit	8950	2/15	58	16.5	4.8	
Bright Angel	8400	2/14	49	14.3	2.6	
Chalender *	7100	2/14	23	6.0	0.2	2.5
Fort Valley	7350	2/14	23	5.6	0.0	1.8
Grand Canyon	7500	2/13	27	7.3	0.0	1.
Williams Ski Run	7720	2/15	45	10.8	1.7	
LITTLE COLORADO RIVER						
Baldy	9125	2/14	41	9.3	4.3	6.]
Canyon Creek	7500	2/14	29	7.9	0.2	2.9
Canyon Point	7600	2/14	31	8.9	0.0	3.5
Cheese Springs	8600	2/15	34	8.2	4.5	
Forest Dale	6430	2/14	20	4.6	0.0	1.2
Ft. Apache	9160	2/14	39	9.0	5.1	6.5
Fort Valley	7350	2/14	23	5.6	0.0	1.8
Happy Jack *	7630	2/14	37	9.5	0.0	2.7
Heber	7600	2/14	33	8.8	0.2	3.0
McNary	7200	2/14	23	6.5	0.2	2.5
Mormon Lake	7350	2/14	34	9.9	0.0	3.1
Mormon Mountain	7500	2/14	41	11.5	0.2	3.9
Nutrioso V	8500	2/14	16	3.4	0.7	1.6
Promontory Butte	7930	2/1 <del>4</del>	<b></b>			
Snow Bowl #1	10260	2/14	56	13.6	7.0	8.0
Snow Bowl #2	11000	2/14	83	23.5	13.1	12.5
Wilson Lake *	9000	2/15	48	12.6	7.5	8.2
Inner Basin #1	10100	2/8	65	21.6	7.5	0.2
Inner Basin #2	9750	2/8	46	13.7		
Agassiz	11200	2/8	. 69	22.8		
- 1953-67 15-year period.	(*) Ad	· ·			1953-61	7
Adjusted average. (A) As						
5		<b>-</b> 9	_			

+ 1953-1967 period.



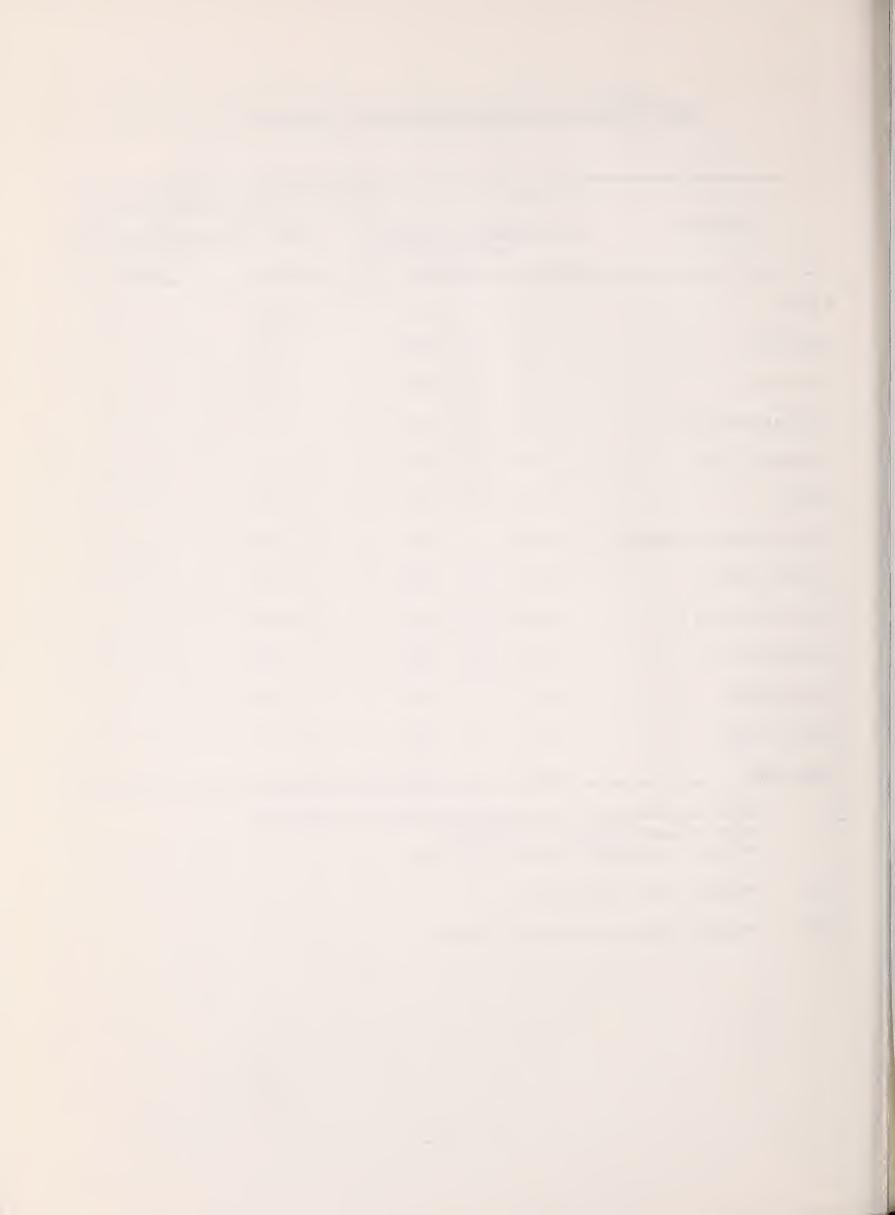
### PRECIPITATION AT SELECTED ARIZONA STATIONS 1/

	Precipitation - Inches						
CTA TT AV	Current Water Yea						
STATION	The same of the sa	ary - 1973	(Oct. 19	72-January 1973)			
	Total	eparture from Normal	Total	Departure from Normal			
	IOtal	MOTHET	IOtal	NOTHAL			
Alpine	.90	70	13.02	+ 7.62			
Ash Fork	.06	<b>-</b> .96	9.43	+ 5.81			
Clifton	.55	<b>-</b> .36	6.10	+ 2.73			
Douglas Smelter	.62	10	4.71	+ 2.22			
Flagstaff WSO*	1.89	+ .06	18.22	+12.22			
McNary	1.92	54	15.86	+ 7.76			
Payson Ranger Station	1.00	- 1.12	17.08	+10.21			
Phoenix WSFO*	.13	60	7.10	+ 4.57			
Prescott (City)	.64	- 1.34	13.36	+ 7.31			
Springerville	<b>.</b> 35	<b>-</b> .36	3.79	+ 1.35			
Tucson WSO*	.06	<b>-</b> .76	6.48	+ 3.48			
Winslow WSO*	.23	20	7.15	+ 5.18			
Yuma WSO*	.03,	36	2.77	+ 1.56			

Data and Analysis furnished by Paul C. Kangieser NOAA Climatologist for Arizona National Weather Service, Phoenix

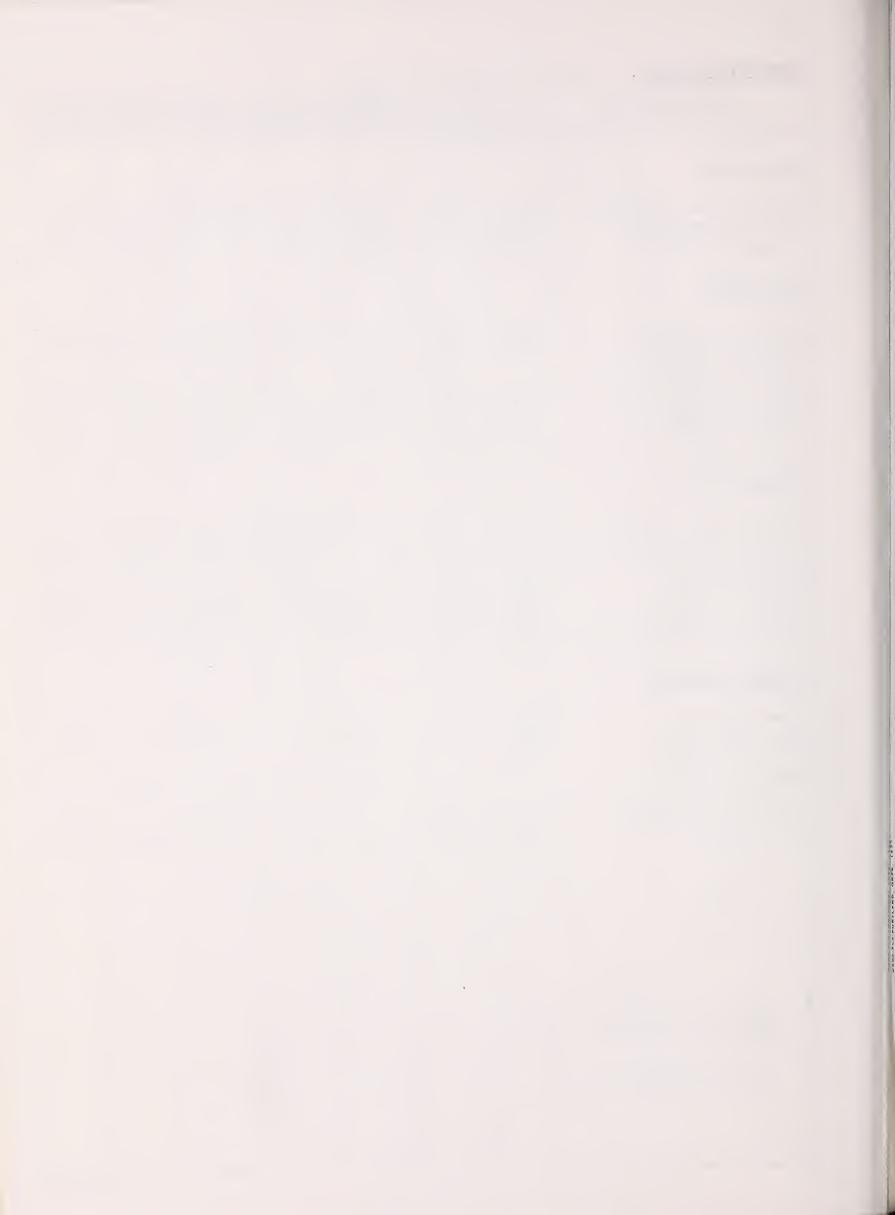
WSO\* Weather Service Office

WSFO\* Weather Service Forecast Office



PRECIPITATION (Inches) ABOUT FEBRUARY 15, 1973

CURRENT INFORMATION FROM APPROX. NOV. I TO DATE DRAINAGE BASIN and ELEVATION Month's Date of Average + Percent of Average + PRECIPITATION GAGE LOCATION This Year Reading Precipitation Average GILA RIVER 11.44 Silver Creek Divide 9000 2/13 1.90 \_\_\_ 12.58 2/14 2.90 140 Hannagan Meadows \*\* 9030 1.10\* 9.00\* 5.71 Frisco Divide \*\* 2/14 1.80 8000 \_\_\_ \_\_\_ SALT RIVER 2/14 1.40\* Canyon Point 7600 3.92 16.62 141 11.79\* Hannagan Meadows \* 12.58 140 9030 2/14 2.90 1.10\* 9.00\* Little Wildcat (Heber Snow Course) 7600 139 1.15\* 14.20 10.22\* 2/14 3.30 Maverick Fork 9050 2/14 1.12\* 10,91 8.81\* 124 2.97 Workman Creek \*\* 6970 1.42 15,61 12.46 125 2/12 3.85 Wilson Lake 9100 2/15 1.82 9.62 \_\_\_ VERDE RIVER 119 Baker Butte 7300 2/14 3.00 15,16 1.29\* 12.75\* Copper Basin Divide 6720 1.07\* 7.86\* 11.94 152 2/14 2.55 7350 Fort Valley \*\* .83 6.43 130 2/14 1.79 8.32 Happy Jack \*\* 7480 7.79\* 1.07\* 11.59 149 2/14 2.85 Mingus Mountain 7660 1.01 6.73 10.50 156 1.93 2/14 Mormon Mountain 7500 1.35\* 2/14 3.20 17,23 11.36\* 152 White Horse Lake Jct. \*\* 7150 2/15 3.30 13,42 ---LITTLE COLORADO Inner Basin #1 9830 2/8 2.75 1.33 14.87 11.09 134 Inner Basin #2 18.30 10050 2/8 3.40 \_\_\_ Sheep Crossing 129 (Baldy Snow Course) 9125 2/14 2.53 10.84 1.00\* 8.43\* Little Wildcat 139 (Heber Snow Course) 7600 2/14 3.30 14.20 10.22\* 1.15\* 107 Greer Lakes 8500 2/15 1.13 48 4.70 4.42 十 1953-67 Average Adjusted Average \*\* Data Supplied by U. S. Forest Service 11



SOIL MOISTURE ABOUT FEBRUARY 15, 1973

DRAINAGE BASIN and/or STATIO				Date of Survey	Soi	ches)	
Name	Elevation	Depth	Capacity	Survey	Year	Last Year	Average +
GILA RIVER Frisco Divide	8000	48	13.3	2/14	14.2	10.6	10.8
		20		27 1 1	21.0		
SALT RIVER							
Black River Divide	9100	48	16.8	2/14	18.0	17.7	15.4
Canyon Creek	7500	48	18.3	2/14	17.4	17.8	15.2
Corduroy Creek	6000	36	13.5	2/14	13.8	11.5	8.3
McNary	7200	48	16.3	2/14	17.9	17.9	14.3
VERDE RIVER							
Mormon Mountain	7500	48	16.1	2/14	17.8	17.0	15.4
Newman Park	6750	48	17.7	2/14	19.5	16.9	15.3
1953-67 l5-year ave	rage						
			- 12 -				



### The Following Organizations Cooperate in the Arizona Snow Survey Work

### FEDERAL

Department of Agriculture Soil Conservation Service Forest Service Apache Forest Coconino Forest Coronado Forest Gila Forest Kaibab Forest Prescott Forest Rocky Mountain Forest and Range Experiment Station Tonto Forest Department Of Commerce NOAA, National Weather Service Department of Interior Bureau of Reclamation Region III Geological Survey Arizona District Bureau of Indian Affairs Fort Apache Reservation San Carlos Irrigation Project National Park Service Grand Canyon National Park Gila Water Commissioner Safford, Arizona

### STATE

Arizona Game and Fish Department
Arizona State Parks Board
University of Arizona
Arizona Agricultural Experiment Station
Water Resource Research Center

### IRRIGATION PROJECTS

Salt River Valley Water User's Association Phoenix, Arizona San Carlos Irrigation and Drainage District Coolidge, Arizona

### **PRIVATE**

Southwest Forest Industries, Inc.
McNary, Arizona
Fort Apache Indian Reservation
White Mountain Recreation Enterprises

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ROOM 6029 FEDERAL BUILDING PHOENIX, ARIZONA 85025

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FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

domestic and municipal water supply, hydro-electric power water supply for irrigation, necessary for forecasting generation, navigation, Furnishes the basic data mining and industry "The Conservation of Water begins with the Snow Survey"